

**BATTERY RESIDUAL AMOUNT DETECTOR FOR PORTABLE TELEPHONE SET**

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**Abstract**

**PURPOSE:**To provide a battery residual amount detector in which a battery voltage is discriminated stably with less error in the case of a telephone set whose power consumption is pulsively increased by measuring the power supply voltage in a timing when the power consumption is maximized synchronously with the transmission timing decided by a TDMA processing circuit controlling a time slot.

**CONSTITUTION:**In the battery residual amount detector for a portable telephone set of the TDMA system sending/receiving a signal in different time slots from the transmission and reception alternately, a battery voltage measurement means 19 receives the information of the timing of a transmission period from a TDMA processing circuit 13 and turns on/off a switch 20 synchronously with it, and a sample-and-hold circuit 21 samples and holds the battery voltage. An A/D converter 22 converts the processed voltage into digital data and gives the data to a control circuit 10. The control circuit 10 applies processing such as the averaging to plural data and discriminates whether or not the battery voltage for the transmission period is a voltage operating the entire telephone set or over and displays the result onto a display section 16 or implements other processing.

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